

Thermal Hydraulics Division Executive Committee Meeting Minutes

Washington Hilton, Washington, DC

Sunday, November 9, 2025

1 Welcome (Bajorek)

2 Attendance (All)

2.1 EC Members

Quorum established.

Name	Affiliation	Present?	Proxy to
<i>Elected Officers</i>			
Steve Bajorek	US NRC	Yes	
Ferry Roelofs	NRG PALLAS	Yes	
Dillon Shaver	ANL	Yes	
Donna Guillen	INL	No	Bolotnov
<i>Term Ending 2026</i>			
Fan-Bill Cheung	PSU	Yes	
Chul-Hwa Song	KAERI (ret.)	Yes	
Isabela Gutowski	OSU	No	Howard
Ling Zou	ANL	No	Hu
<i>Term Ending 2027</i>			
Rui Hu	ANL	Yes	
Elia Merzari	PSU	Yes	
Subash Sharma	Missouri S&T	Yes	
Sierra Tutwiler	VCU	No	Shaver
Xu Wu	NCSU	Yes	
<i>Term Ending 2028</i>			
Bao-Wen Yang	Delta Energy Group	Yes	
Marilyn Delgado	X-Energy	Yes	
Maria Avramova	NCSU	No	Bolotnov

Jun Liao	WEC	Yes
Trevor Howard	ORNL	Yes
<i>Ex Officio</i>		
Igor Bolotnov	NCSU	Yes

2.2 Additional Attendees

Name	Affiliation
Robert Martin	US NRC
Shripad Revankar	Purdue
Juliana Pacheco Duarte	UW-Madison
Jee Hyun Seong	KAIST
HangJin Jo	POSTECH
Xingang Zhao	UTK
Arsen Iskhakov	KSU
Saya Lee	PSU
Nick Mecham	NCSU
Daniel Jota	TAMU
Piyush Sabharwall	INL
Yassin Hassan	TAMU

3 Agenda (All)

See Appendix C.

Motion: To approve the agenda (Merzari)
Second: (Yang)
Discussion: None
Vote: Passes unanimously

4 Approval of Minutes from Summer Meeting (All)

Motion: To approve the minutes (Hu)
Second: (Howard)
Discussion: None
Vote: Passes unanimously

5 Action Items from the 2025 Summer Meeting (Bajorek)

5.1 Proposal for increasing membership

Bajorek: Will discuss in later agenda item (See Section 9).

5.2 Proposal for new student support fund

Bajorek: We are in good shape. Expecting significant contribution from NURETH-21. Moved \$60k to student support fund. Will allow support for student conference, etc.

5.3 Development of white paper

Iskhakov: Making progress. Iskhakova will present by next THD leadership meeting.

Bajorek: Will discuss in later agenda item (See Section 13).

5.4 Update to THD strategic plan

Bajorek: Distributed to all members of EC (See Appendix D). Will discuss (See Section 14). Looking for ideas. Goal: update over the next few months and get approval at next meeting.

6 Chair Report (Bajorek)

6.1 News from ANS

(See Appendix E)

Bajorek: It has been an excellent year. Membership up (see update attachment for details). Membership from organizations is up. Decrease in operating budget due to THD establishment of student fund.

Merzari: final numbers for annual: 1400+, winter 1300+ Still planning for 2028. Summer conference will end. Applies pressure to THD for ATH28. Looking like increased emphasis on the student conference. Increased participation from divisions is expected. Planning not formalized yet. The idea is to merge the annual meeting with Student meeting and host in a major city outside of university, but keep students involved in planning and organization. We could have the option to embed ATH and focus on students.

Yang: Still in process of getting proposals for ATH 2028.

Merzari: ANS considering its role and where it should get involved.

6.2 THD Networking/Social Event

Discussion on a THD Networking/Social event at annual 2026. General consensus is that we're interested but want to mitigate financial risk. Tasking Sabharwall with investigating the possibility.

Sabharwall: we have staff from NREL with access to a museum that can host 40-60 people. Working with business center in downtown Denver for ideas.

Bajorek: can you provide a name to work with so we can explore the costs involved, including upfront costs. Propose that THD will seek cost recovery up to \$2k.

Sabharwall: OPD has been doing this.

Merzari: should we plan to do this at the student conference?

Dutra: student conference is cheap. How does that impact this?

Merzari: student conference has become too big.

Motion: Propose to organize an event at the 2026 annual meeting with cost recovery up to \$2000
(Merzari)

Second: (Roelofs)

Discussion: None

Vote: Passes unanimously

Yang: Will this be covered by ticket sales or sponsorship?

Cheung: for reference, with the student support fund we have \$3k to spend. It doesn't look good to put a large amount towards a social event.

Bajorek: it's an upwards limit to make sure we don't go overboard.

7 Treasurer's Report (Guillen)

Bajorek: Guillen is unable to attend, but in general we are in good shape. Current report doesn't include the establishment of the student fund or donation from NURETH-21.

8 Bylaws (Merzari)

Merzari: Bringing it to closure. It has been a much longer exercise than anticipated. We have a new set of approved bylaws and rules. They have been posted on the website and newsletter. **PLEASE REVIEW.** There are several changes including two new committees: industrial engagement and membership.

The Committee expresses appreciation to Dr. Merzari for this effort.

9 Membership Subcommittee (Sharma)

Sharma: Have been trying to quantify how much it will cost to advertise at different conferences. Progress has been good.

Bajorek: where do you see better cost/benefit?

Sharma: Magazine ads cost a lot; booths are a better option. Details available in the proposal.

Merzari: We should consider what the objectives are and how to meet them. We need to go where the people are, and they aren't in the magazines or at the conferences. I don't think this is the solution.

Bajorek: it's not an issue of getting Nuclear papers in ASME conferences, it's about getting papers from ASME included in ANS.

Merzari: the connection is weak.

Sharma: We're trying to get other people to see the work going on in nuclear and get them interested.

Bolotnov: is it more effective to reach out directly to the people?

Sabharwall: It's as simple as taking a printout and putting it out there.

Merzari: the summer heat transfer conference has an attendance of 200. The people don't exist. ASME has been going through a lot, AIChE has too.

Bajorek: if it costs \$500-\$1000 to get an ad, would it be more cost effective to target specific members for NURETH/ATH/etc? Emails are cheap.

Merzari: my suggestion is to do joint events. A panel, webinar, etc.

Cheung: the best way is to collaborate.

Bajorek: Sharma and Merzari are to take action to come up with a collaborative effort with other organizations and we'll discuss at the next leadership meeting.

10 International Collaboration (Roelofs)

Roelofs: The effort is not to create a new organization, but to collaborate between existing organizations, Global Alliance of Thermal Hydraulics Education, Research and Industrial Networking (GATHERING). E.g. coordinate where and when to have the international conferences, such as NUTHOS and ATH. We have online meetings, if you have ideas feel free to contact Bolotnov, Bajorek or Roelofs.

11 Industrial Engagement Subcommittee (Liao)

Liao: In general, the committee is strong. Continuing to support panel sessions in NURETH and winter meeting. Exploring new initiative to better serve THD.

Summarize historical reactor design (see item 15, Martin).

Increase membership by gathering feedback from industry on TH education/training. (Muftuoglu)
initiative to institute advisory board. (Yang, Muftuoglu)

- The current needs are different from historical needs.
- Goal is to set a survey and segregate responses by vendors, utilities, reactor designers, etc.
- Preferred background: BS and MS, not so much PhDs. Focus on industry.
- Will set up survey and send report within 5-6 months.

Liao: will respond directly to industry needs.

12 PC Report (Gutowska/Ryan)

Gutowska/Ryan unable to attend

Bajorek: They have been doing a great job. To summarize, this meeting is in good shape. Some trouble with chairs, but issues have been resolved. Jumping ahead to NUTHOS-15, abstracts due November 30th.

Sharma: we can advertise these deadlines on LinkedIn.

Bajorek: Moving on to NURETH. NURETH-21 sets a new gold standard (See Appendix F).

Lee: revenue not as high as anticipated due to 1/3 of registrants being students. \$23k has been donated to THD.

Bajorek: journal issue from NURETH?

Merzari: collected 130 articles for special issues – NED, NT, NSE, emails sent last week.

Bajorek: moving on to NURETH-22.

Sabharwall: Flyer circulated (see Appendix G). To be hosted in August in Denver. Would like to focus on other areas that don't get so much traditional interest, AI/ML, validation, etc. Have started organization meetings. CO School of Mines/NREL helping. Will have many levels of sponsorship to provide budget to replicate NURETH-21. Planning to have RELAP and MOOSE workshops.

Sabharwall: as an aside, one thing we haven't done is advertise SULI opportunities to bring students in from outside.

Student Conference Delegation: we are expecting 900 students at Texas A&M. most sessions hosted on campus, have some external tours plans. The call for papers has been posted, looking for participation in reviews and in-person judges. Also looking for best presentation/best poster support.

13 Data Preservation White Paper (Iskhakova)

Iskhakov: Iskhakova will provide an update by next leadership meeting.

Bajorek: Be careful of the costs involved. Previous efforts stumbled over magnitude of data, IP issues, etc.

14 THD Strategic Plan (Bajorek)

Bajorek: We need to update it. First draft distributed (see Appendix D). Will be discussed at leadership meetings and cover where we're going in 2026 – 2031. Has not changed significantly. Point out one change to the mission: support workforce through student support and other efforts. Looking for feedback on wording. No proposed specific goal of increasing membership by X amount. Emphasis should be on increasing active membership. We also want to promote underrepresented groups. Need to remain in a strong financial position. Want to maintain strong international engagement. Updated success metrics: track number of papers. Provide metrics on active vs inactive members.

Arndt: can highlight international awards to highlight the success of the division. We have an upward trend in overall membership, we should track our proportional increase.

Bajorek: Please look at Annual plan and Strategic Objectives for input/revisions.

Merzari: part of the strategic plan should be the succession plan.

Bajorek: that was an appendix on the old plan, but it runs out. Should be maintained by the nominations committee.

Merzari: that might be my fault. I constructed it in the wrong direction. The idea should be to show and track who was in previous positions.

Martin: shows where you've been. We're not a society with competitive elections.

Yang: we try to look for leadership in alternate sectors, academic, industry, etc.

Merzari: it's important to think about succession.

Bajorek: will take the action to re-add to the plan.

Yang: typically, industry and international members are underrepresented. I would recommend having an EC member to focus on underrepresented regions such as India or South America. Get them involved in PC and reviews.

Bajorek: success metric of having that membership representation of 15% or more.

Merzari: our membership is flat, but society is growing. We are a small division by membership numbers, but a very big division when it comes to the technical program.

Bajorek: Strategic plan will outline goals. How to get there is another discussion.

15 History of Nuclear Technology Special Issue of NED (Martin)

Martin: Ambitious effort led by prof. D'Auria. We want to make sure we're engaged and will respond to the call for submission of papers to several volumes. Will target specific topics.

Merzari: Will all be published on NED website.

Delgado: can we link it to the THD website?

Martin: We have several people involved in the project and on this committee. We want to make sure people are aware that this is going on.

Roelofs: We can advertise in the next newsletter.

16 Social Media Update (Dutra)

Bajorek: Dutra not available. Please see newsletter.

17 Honors and Awards Committee Report (Cheung)

Cheung: The highest honor awarded by THD is the Technical Achievement Award. This year's award is awarded to Dr. Stephen Bajorek.

18 Scholarship Committee Report (Pointer)

Bajorek: Pointer is not present. Please see newsletter.

19 Conference Screening Committee Update (Yang)

Yang: for ATH 2028, due date for call for proposals is Nov. 28th. Still no official submissions. A lot of unofficial interest after announcement, but lately quiet. May conflict with NURETH-23 which will be in Europe. Would like to consider extending the deadline and opening to other countries.

Roelofs: that might be good. Merzari and I are discussing with Slovenian colleagues. We think they will know by next week, but it would be helpful to extend the deadline.

Merzari: suggest doing a short extension before making this overly complicated.

Yang: want to avoid conflict with student conference in April. One month extension for now, then a more significant extension to include other countries.

Cheung: timing is very important. I support a short extension before opening it up.

Bajorek: need to have the decision made by Spring of 2026.

Yang: with June available, that may make things easier.

Motion:	If after the extended deadline of December 15, no acceptable proposals have been received, the call for proposals should be revised to cover additional regions (Merzari)
Second:	(Cheung)
Discussion:	None
Vote:	Passes Unanimously

20 Nominating Committee Update (Bolotnov)

Bolotov: We have nominated division leadership.

Motion:	To approve the nomination of the following candidates (Nominating Committee): Vice Chair/Chair Elect – Shaver Secretary – Guillen Treasurer – Liao EC – Jeong Ik Lee (KAIST), Yue Jin (U. Missouri), Cheung (PSU), Jinzhaoh Zhang (Tractebel), Duarte (UW Madison)
Second:	(No second needed for motions from the NC)
Discussion:	None
Vote:	Passes unanimously

21 Old/New Business (Bajorek)

Howard: broadening CFD competition to include other organizations. Looking for a dataset/sponsor. If there is industry or lab interest in proposing a benchmark please contact us.

Yang: invitation to young members and everybody to participate in reviews and organizing for NURETH-22. Open invitation to participate in organizing committee.

22 Adjourn (Bajorek)

Motion: To adjourn (Merzari)

Second: (Howard)

Discussion: None

Vote: Passes unanimously

C Agenda

PROPOSED AGENDA

American Nuclear Society – Thermal Hydraulics Division Executive Committee Meeting
 2025 Winter Annual Meeting, Washington DC
 3:30 PM - 5:30 PM (US Eastern Standard Time), Sunday November 9, 2025
 Cardozo Room

Item	Topic	Lead	Time
1	Welcome	Bajorek	3:30
2	Establish Quorum	All	3:32
3	Approval of Agenda	All	3:35
4	Approval of Minutes from 2025 Summer meeting	All	3:40
5	Action items from 2025 Summer meeting (to be discussed below) a. Proposal for increasing membership b. Proposal for new student support fund c. Development of a Data Preservation white paper d. Update of THD Strategic Plan	Bajorek	3:45
6	Chair Report a. News from ANS b. Discussion on THD Social Gathering	Bajorek	3:50
7	Treasurer's Report	Guillen	3:55
8	Bylaws Update	Merzari	4:00
9	Membership Subcommittee a. Proposal for increasing membership	Sharma	4:05
10	International Collaboration a. GATHERING Initiative & conference coordination	Roelofs	4:10
11	Industrial Engagement Subcommittee	Liao	4:15
12	Program Committee Report a. Update on THD Program 2025 Winter Meeting b. Summary of 2026 Annual Meeting planning c. NURETH-21 (Song) d. NURETH-22 Update. (Sabharwall) e. NUTHOS-15 Update f. ATH 2026 Update g. 2026 Student Conference (Carlo Dal Colletto)	Gutowska/Ryan	4:20
13	Data Preservation White Paper	Iskhakova	4:30
14	THD Strategic Plan	Bajorek	4:40
15	History of Nuclear Technology Special Issue	Martin	4:50
16	Division Social Media Update	Dutra	4:55
17	Honors and Awards Committee Report	Cheung	5:00
18	Scholarship Committee Report	Pointer	5:05
19	Conference Screening Committee Update	Yang	5:10
20	Nominating Committee Update	Bolotnov	5:15
21	Old/New Business	Bajorek	5:20
22	Adjourn	Bajorek	5:30

D THD Strategic Plan

ANS THERMAL HYDRAULICS DIVISION 2026-2031 Strategic Plan

The primary mission of the Thermal Hydraulics Division (THD) is to advance Thermal- Hydraulic engineering and science related to the nuclear power industry. It is also the goal of the THD to promote technology exchanges and social activities in the nuclear thermal- hydraulic community through various conferences, topical meetings, and webinars. In accomplishing this mission, the THD has the mission to promote publications and presentations relating to nuclear thermal hydraulics high-quality technical and to establish, stimulate, and maintain quality technical and professional approaches in the areas of nuclear thermal hydraulics. The last comprehensive Operational Plan was submitted to the Professional Division Committee (PDC) in 2012 and updated in 2016. It is our understanding that there is now no such requirement. This is a voluntary effort on the part of the division. This document outlines a 5-year (2026-2031) Operational Plan, which should not be considered a binding document, but rather a guide. It should be reviewed and updated as needed by the THD Executive Committee (EC), as appropriate, every year. This document is reviewed and updated in 2025-2026 to adapt necessary changes for the growth and development of THD.

Mission

To establish, stimulate, and maintain quality technical and professional approaches in all areas of nuclear thermal hydraulics. In furtherance of this mission, the Division shall devote itself specifically to:

- The advancement and dissemination of knowledge of thermal and hydraulic phenomena as they pertain to the steady-state design or transient performance of equipment in nuclear power plants and other segments of the nuclear fuel cycle.
- Aid in the integration and dissemination of thermal hydraulics information developed in research and design programs and from experience with operating nuclear reactors.
- Promote effective interchange of thermal hydraulics information among the many professional groups and organizations participating in the development and application of nuclear reactor technology.
- Provide a mechanism for interaction between the nuclear industry and regulatory groups.
- Enhance nuclear industry workforce development through support of student conferences and scholarships.

5-Year Goals

The Division has the following goals for the period 2026-2031:

- Maintain the high-quality topical meetings sponsored by the division, with focus, in order of priority, on NURETH, NUTHOS, ATH, and ANS national meetings.
- Develop additional technical exchange programs, such as webinars that leverage the increase of online professional activity in recent years.
- Promote the value of membership of the division to its members, in particular, those who do not attend the above technical meetings regularly.
- Innovate the communication approach of the division and make it consistent with the expectations of a changing demographic.
- Increase membership in the division, in particular with the under-represented groups, internationally and in industry.
- Establish a pipeline for the future leadership of the division, investing in young members and students

Division Finance

THD remains in a strong financial position. We expect to conclude 2025 with a balance of approximately \$90,000. We are in the process of transferring a portion of this balance into a new student fund so that it earns interest as do our scholarship funds.

All Scholarship and Award funds remain in a strong position with enough funds to cover foreseeable disbursements. Each fund has increased over the past couple of years and continue to grow possibly allowing for increases in future disbursements. The following table provides a recent snapshot of the fund balances.

Table 2: Award Funds Budget for 2024

Award	TAA	Service	Hochreiter	Esposito	Seghal
Balance 12/31/2023	\$48,480	\$20,816	\$79,430	\$74,199	\$20,132
Income					
Investment	\$4,712	\$2,023	\$7,721	\$7,212	\$1,957
Other					
Total Income	\$4,712	\$2,023	\$7,721	\$7,212	\$1,957
Expenses					
Awards			\$(3,000)	\$(3,000)	\$(2,000)
Plaques	\$(221)	\$(118)			\$(118)
other expenses					
Net change	\$4,491	\$1,905	\$4,721	\$4,212	\$(161)
Balance 12/31/2024	\$52,971	\$22,721	\$84,151	\$78,411	\$19,971

The Division's financial requirements are usually met through income from Topical Meetings, ANS Member Allocation, and investment growth. Success in meeting financial obligations and Division objectives depend on careful Topical Meeting planning as well as monitoring the overall financial health of the investments.

Membership

As of late 2025, the Division membership has remained relatively stable at approximately 1100 members. This number represents an increase from a low point of 919 in 2019 although it is less than the all time high of 1251 in 2016. During the period 2020 to 2024 there were fluctuations possibly due to the Covid pandemic, but by 2025 membership returned to above 1000 members. The figure below shows the trend in membership over the last five years.



Approximately 40% of the members identify themselves as a nuclear engineer and roughly 16% are students. Most of our members are young (in the age group of 20-40). The split between members from the United States and international has remained about the same over the past few years with our international continent at about 10%. ANS has clearly reached an international audience and our international members are encouraged to invite new members to meetings.

We intend to continue this gradual increase in THD membership over the next 5 year period. Further increases are reasonable given the significant interest in nuclear technology and development of a variety of nuclear reactor systems. However, the division hopes to increase membership by attracting more industrial and international practitioners. Increasing young and new professionals as well as women and underrepresented groups remains a focus as well.

While overall membership is an important metric of Division health, it is vital to our long-term goals of developing the human resources for governance and technical program activities. Student and young member participation is needed to provide the technical depth of the Division for supporting conferences and meetings as well as a sufficient number of members for Division governance.

International Engagement

Interest in nuclear technology and thermal-hydraulics is world-wide as many nations currently operate or plan on new nuclear units. As mentioned in the section on membership, increasing our international membership is an objective. Increased collaboration with international

organizations and coordination of common interests is also a benefit to all involved. To this end a new initiative was launched in 2025 with the mission to establish a global network of nuclear thermal hydraulics experts, to align activities and share resources. The initiative is called Global Alliance of Thermal Hydraulics Education, Research and Industrial NetworkinG (GATHERING).¹ The alliance is not intended to replace existing national or regional thermal hydraulics divisions and communities, rather it should serve as a platform to enhance interaction and communication between the various existing thermal hydraulics networks.

As part of our five year plan, we intend to participate in GATHERING and enhance communication between organizations. This cooperative effort is expected to help guide the timing and location of future meetings such as ATH and NUTHOS so they do not conflict with each other.

The Technical Program Committee (TPC) of the Division has been a sustained source of leadership that has enabled the Division to organize and conduct technical sessions at both Topical and National meetings. The THD hosted NURETH-20 in 2023 and will be hosting NURETH-22 in 2027. In addition, the TPC provides support for ANS national meetings, NUTHOS, and the embedded ATH.

The Division intends to continue its support for Topical and National meetings and look forward to NURETH-22 in 2027 (and possibly NURETH-24 in 2031), and the Advances in ThermalHydraulics (ATH) meetings in 2026 and 2028. The ATH will be an embedded topical meeting in 2026 at the ANS Winter meeting. We note however, because ANS will no longer hold its Summer annual meeting after 2027 the ATH will no longer be an embedded topical meeting. We anticipate ATH be held in Europe in 2028 and possibly alternate between North America and Europe. The Division intends to work with GATHERING to coordinate ATH and NUTHOS.

Success Metrics

Progress can be measured through several metrics. While subjective, these are proposed to determine how well the Division is meeting our general objectives. These metrics are:

1. The sum of papers published in the last NURETH, ATH, NUTHOS and the ANS national meetings held over the previous two years. This will provide a two-year summary of papers published and “balance” the statistic since NURETH, NUTHOS, and ATH are held every other year. We strive to increase this total sum.
2. The membership as of December each year will provide a quick estimate of Division size. Our goal is that the membership exceeds 1000 at the end of 2025 and remain at that level or gradually increases. Of more interest is tracking active membership by the number of people doing reviews, chairing or organizing technical sessions, and first-time session chairs.
3. Communication will be maintained by continuing our distribution of 2 newsletters per year, holding bi-annual Executive Committee and Technical Program Committee meetings and regular Team Leadership meetings.

4. Student and young member participation will be tracked through membership with a goal of keeping the student membership above 20% of the total membership.
5. International member participation will be tracked with the goal of exceeding 15% of the total membership. In addition, international membership on the Executive Committee will be maintained at roughly 20% (4 members) or more.

THD Annual Plan

The THD annual plan is a summary of tasks performed each year on a regular basis. These are as follows:

1. Organize at least five sessions or ATH embedded topical at each ANS national meeting.
2. Support the next NURETH topical meeting.
3. Support the next NUTHOS topical meeting.
4. Support the Young Professional Research Competition.
5. Implement budget and spending plan for sustainable THD operation including costs for THD awards.
6. Encourage publication of THD member's papers in ANS technical journals and other journals devoted to TH topics or a recent THD co-sponsored topical meeting.
7. Contribute financial support to ANS National Student Conference
8. Contribute to NEED/ANS scholarships.
9. Contribute to ANS for student travel support to national meetings.
10. Select the recipient of the THD Awards (Sehgal, TAA, Service, NURETH Fellows)
11. Present THD Best Paper Award (BPA) to deserving candidate from past year.
12. Issue two THD newsletters
13. Use broadcast e-mail to communicate upcoming THD special sessions and topical meetings.
14. Update succession plan for THD governance.
15. Update THD web page.

List of Strategic Objectives:

- Maintain or increase quality timeliness of the technical content of the division, with a particular focus on advanced reactor thermal-hydraulics.
- Increase EC member activity assigning specific outreach task. The chair shall be responsible for these assignments in coordination with EC members.

- Identify representatives in EC and/or create a position as industrial liaison or leading special function committee. This EC member would be organizing, in collaboration with other division members, functions dedicated to outreach. These may include: Special Sessions for industrial members, social gatherings, special events, invited industrial speakers.
- Increase international collaboration by nominating foreign members to the THD Executive Committee and by appointing non-U.S. members to the THD Technical Program Committee. International EC members are to be tasked to increase partnership with foreign societies and stimulate membership.
- Develop joint activities with international societies that go beyond co-sponsorship of meetings.
- Increase online activities of the division, including webinars with a regular schedule, and use them to actively recruit hosts. The webinars should target audiences of particular relevance, in particular, industry speakers.
- Appoint and support a YMG liaison.
- Nominate at least one student member and one young member to serve or have one student member serving on THD Executive Committee. These EC members (and the YMG liaison if she/he/they is not a member of EC) are to organize a specific activity EACH targeting young members and EC members.
- Develop outreach to university department concerning thermal-hydraulics research and THD.
- Advertise the scholarships of the Division broadly.
- Empower Membership committee to develop strategies to improve value for the division members.
- Develop an effective communication strategy for THD, including a social media presence.
- Support ANS Student National Conferences and student attendance at National and Topical Meetings by making contributions from THD funds. Aggressively advertise the activities of the division at ANS Student Conferences with at least one EC member representing the division.
- Support the Young Member Group by serving as Technical Division sponsor of YMG-organized technical sessions.
- Develop proposal to use funding in the division (and ANS as a whole) for mission support activities.
- Develop fundraising to fund activities of the division.

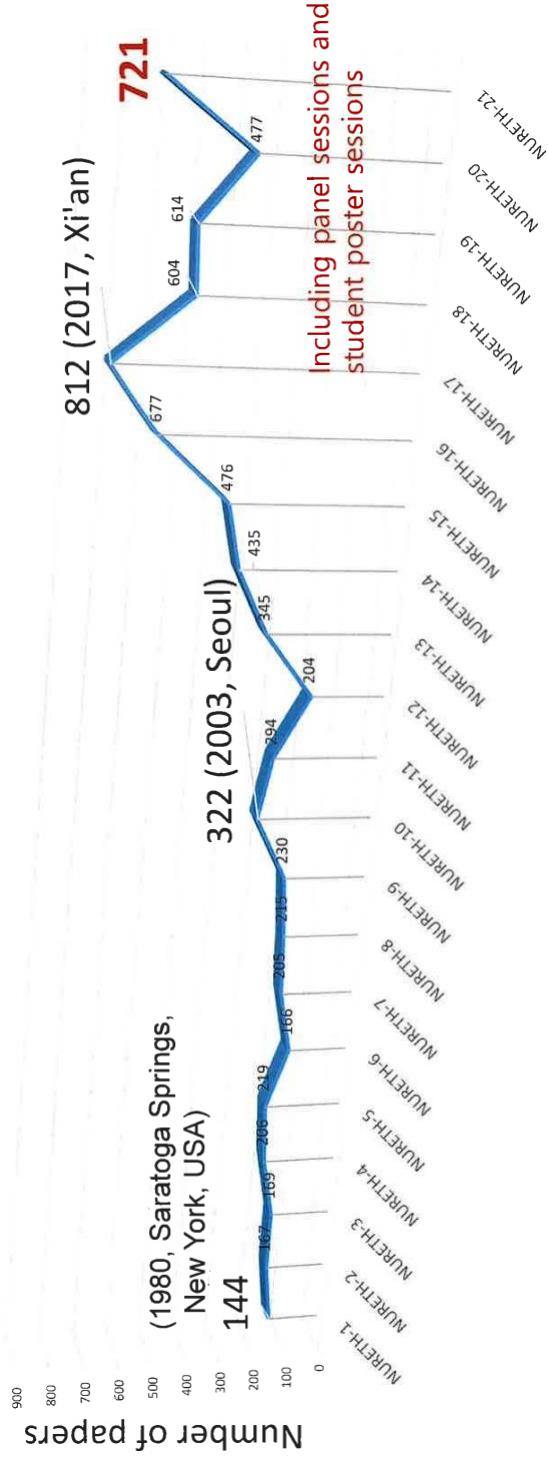
E Update from ANS

Chairman's Update November EC Meeting

1. It's been a good year for ANS Membership, which now exceeds 12000 for the first time since 1997.
2. Organizational membership is also up. ANS has gone from 60 to about 120 since 2019.
3. ANS finances remain strong.
4. Conference attendance generally up and has exceeded expectations. Summer annual had 1216 registrations and this Winter meeting has 1069 registrations (so far).
5. Planning is in progress for 2028. We've known about the Summer annual meeting going away. But a conference in serious consideration is the 2028 Student Conference. This would be April and would be expanded possibly with training opportunities and embedded topical meetings. Division participation will be expected.
6. With respect to public policy, ANS considers workforce, EPA repository standards, university programs, and fuel cycle/waste policy as areas where the Society will play a role.

F







Top 20 Contributors (based on the 1st author's affiliation)



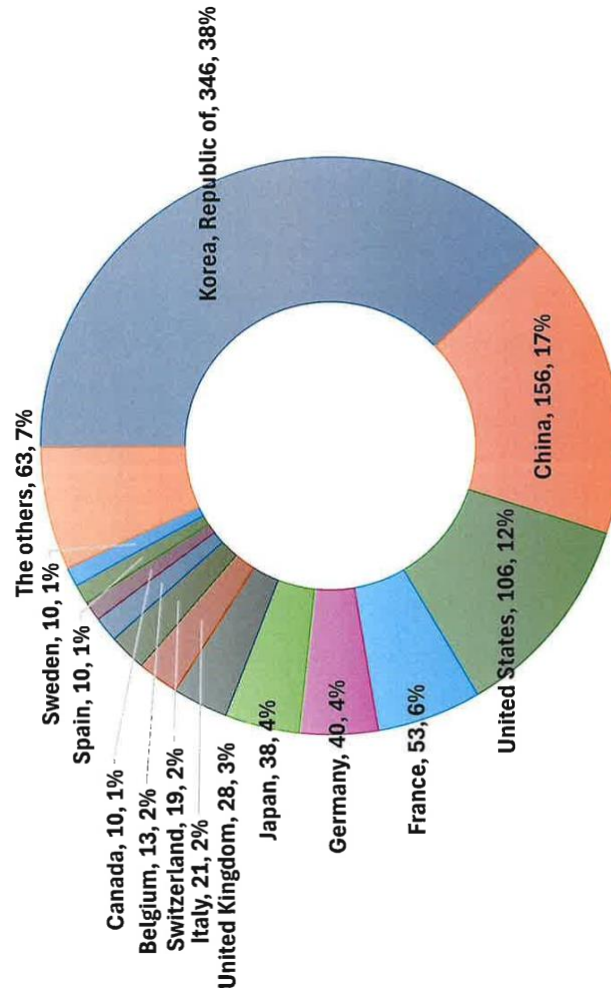
Registration Statistics



NURETH-21

No. of registrants

963 registrants from 37 countries



Registration Statistics

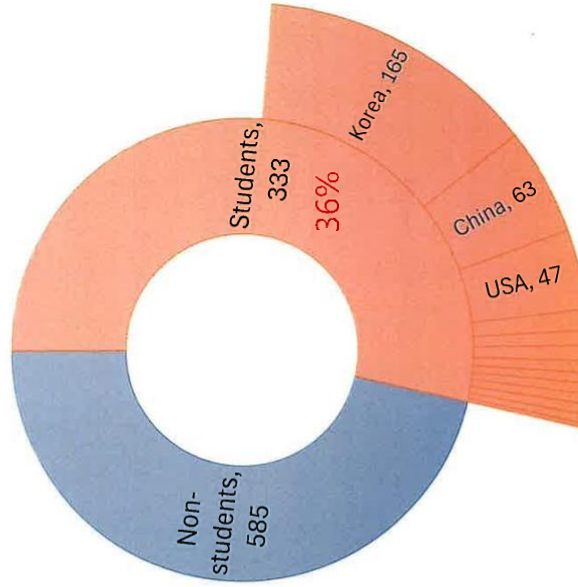
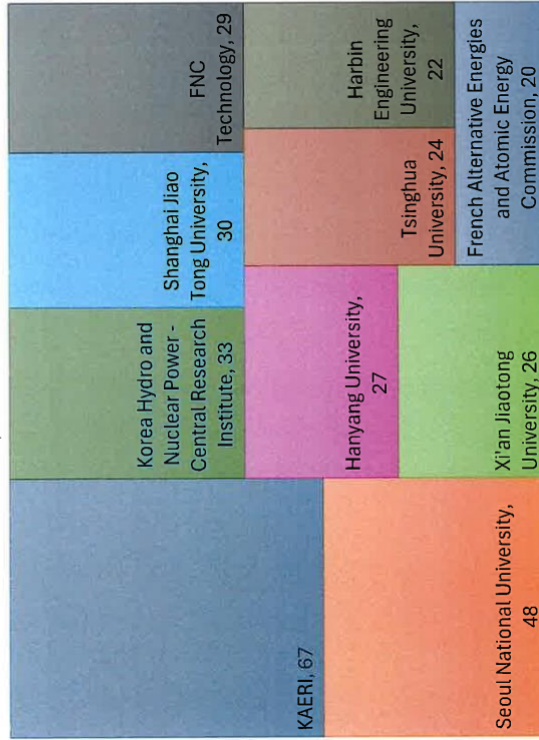


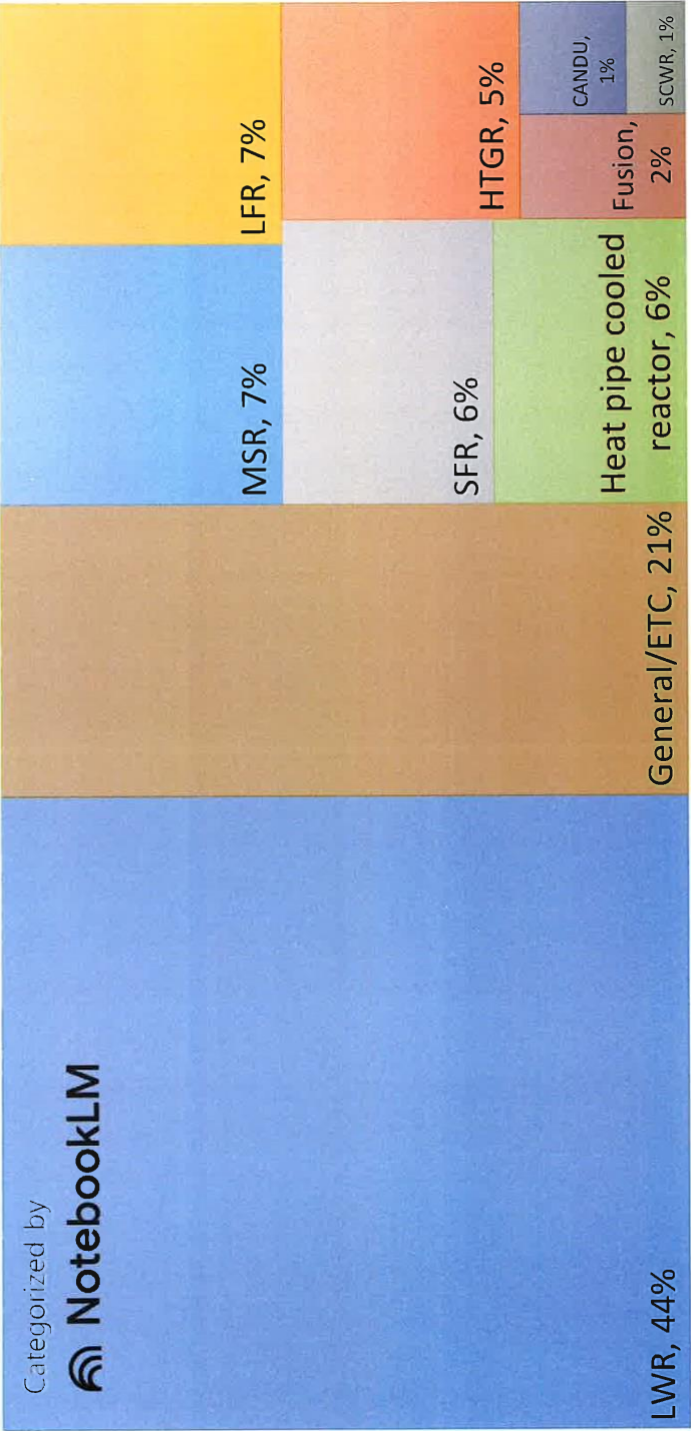
NURETH-2017

No. of registrants

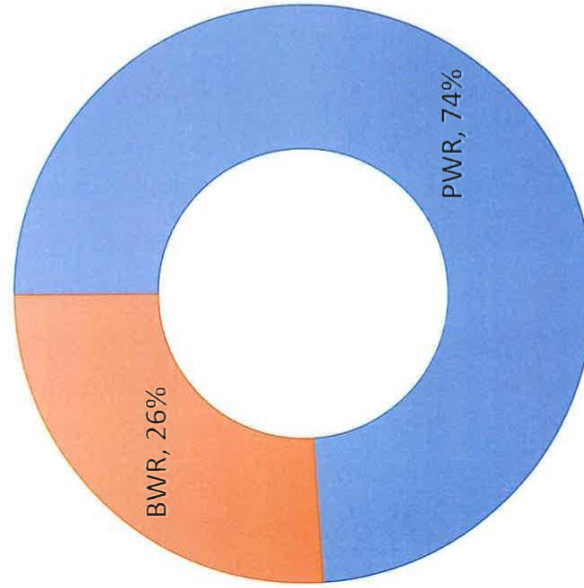
963 registrants from 204 organizations & 333 students

Top 10 Contributors





Among LWRs,



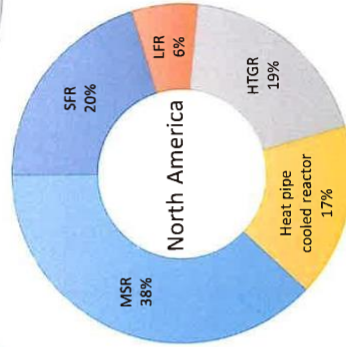
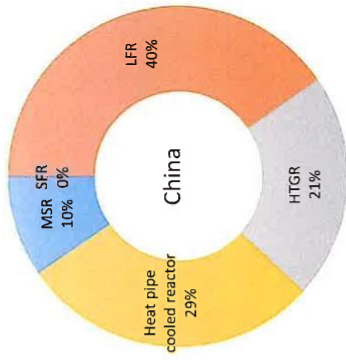
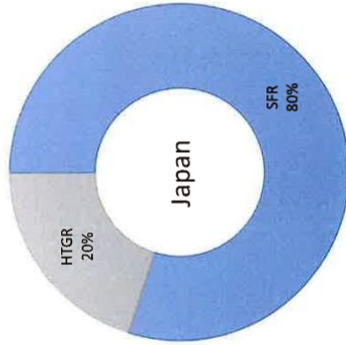
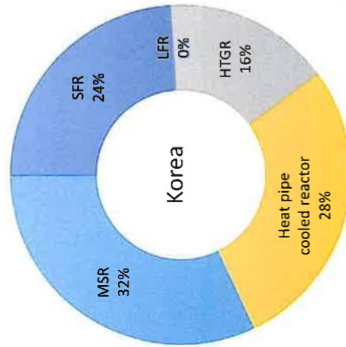
Among non-water-cooled reactors,



Coolant Type Statistics



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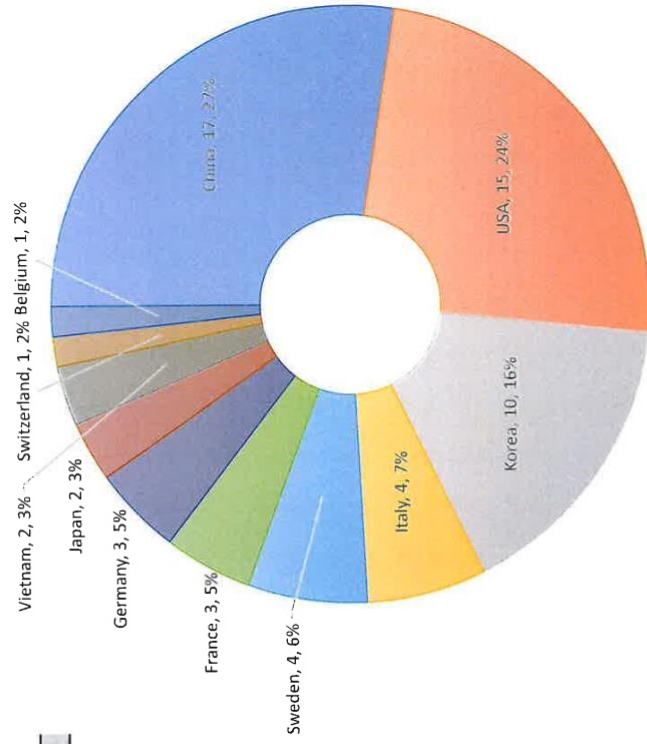
Statistics on AI-Related Topics



NURETH-21

72 out of 721 papers NotebookLM

Topic	Count
CHF prediction	15
CFD acceleration	12
Experimental data analysis	10
Severe accident prediction	7
Virtual SMR platform (Digital twin)	6
Thermal-hydraulic property prediction	5
Convergence acceleration	3
Bubble detection	3
Safety analysis (model calibration)	3
Design optimization	3
PCHE performance prediction	2
Overall AI application on nuclear power	2
Neutronics and TH coupling	2
PIRT formulation	1
Bubble transport prediction	1
AI driven bubbly flow image generation	1





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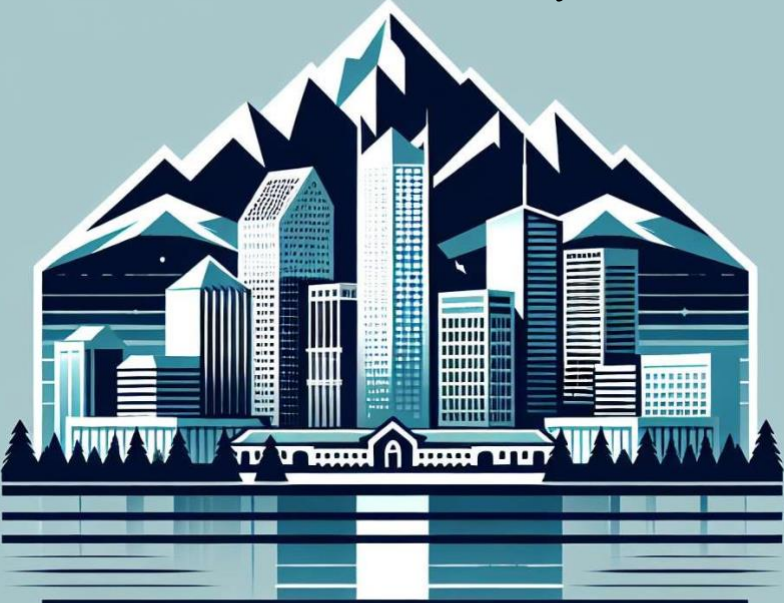
21st International Topical Meeting on Nuclear Reactor Thermal Hydraulics

Thank you for your attention!

"Together, we made this conference a success."

G NURETH-22 Flyer

22nd International Topical Meeting on
Nuclear Reactor Thermal Hydraulics



NURETH-22
Denver, Colorado | August 22 -27, 2027
Hilton Denver City Center

Advancing Thermal Hydraulics:
Global Partnerships and Emerging
Technologies for the Future of
Nuclear Energy

<u>General Chair</u> Dr. Piyush Sabharwall Idaho National Laboratory Piyush.Sabharwall@inl.gov	<u>Co-General Chair</u> Dr. Bao-Wen Yang Delta Energy Group bwy01@deltaenergygroup.com	<u>Conference Inquiries</u> Ms. Connie Stevens Idaho National Laboratory Connie.Stevens@inl.gov
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